1.4

vector

Ex: $X_1 = c(1,2,3,4)$

[1] 1 2 3 4

sequence

Ex: seq(from = 1, to = 5, by = 1)

[1] 1 2 3 4 5

repeat

Ex: rep(2, times = 3)

[1] 2 2 2

matrix

Ex: matrix(c(1,2,3,4), nrow = 2, byrow = True)

	[,1]	[,2]
[1,]	1	2
[2,]	3	4

1.5

read   # read files.

Ex: read.csv(file.choose(), header=T)

readxl

Ex: .xlsx , .xls files

1.6

write   # save file

Ex: write.table(Data, file="name.csv", sep=";")

1.7. rm, dim,

Ex: rm(Data 1)

dim(Data2)

1. 9. = : assign , == : equal

Ex: a = "male" | if a == "male"

a | => True /False.

male |

1. 10 Logic
Age[1:5]

[1] 9, 15, 18, 20

Ex: temp = Age > 15.

> temp [1:5]

[1] False False True True

1.11 Working Directory

Ex: getwd()

setwd("......")

load("......")

save.image("...... .RData")

1.12. Scripts.

Ex: file → New → Script.

1.13. Install packages.

Ex: install.packages("......")

L.15. Function. => Input, Logic, Output
                        ↓   ↓   ↓
                    parameter $+,-,×,\frac{}{}$ return
Ex!   if/else, for ....

1 + ... + 100 = ?

Sum = function (x, y){
    total = 0
    for (i in (a:b){
        total = total + i
    return (total)
    }
}
=> Sum (1, 100)

    => 5050